## **SMART HOME SECURITY SYSTEM**

~ IOT Based Door Access Control Using Face Recognition

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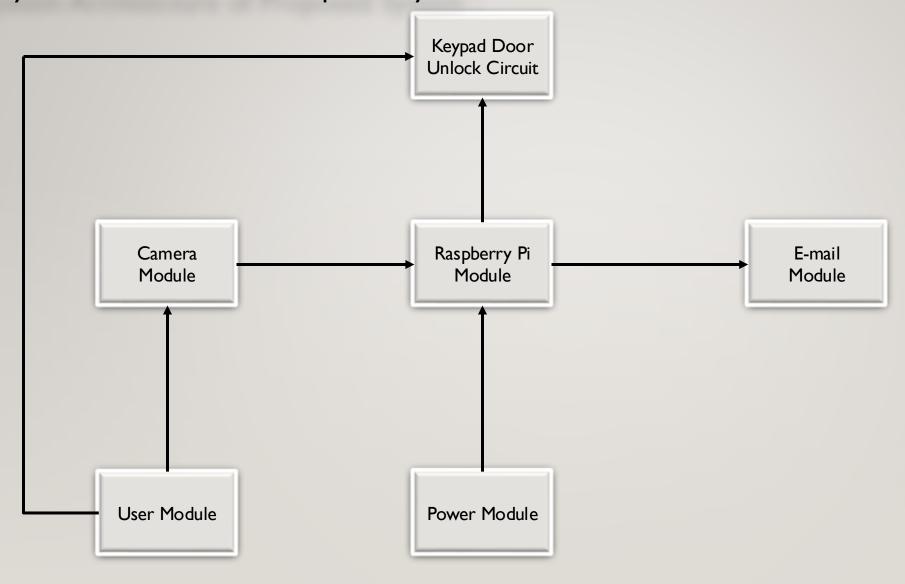
Sejal Madhekar Kavish Dhirawat

## ➤ Background Of Project :

- Home Security is very useful application of IOT and we are using to create an inexpensive security system for Homes as well as industrial use.
- The System will inform the owner about any unauthorized entry or whenever the door is opened by sending a notification to the user.

- Human beings are recognized by their distinctive facial characteristics through in-built door-lock camera.
- In the Face-recognition approach, a given face is compared with the faces stored in the database in order to identify the person and the door will be Unlocked.

> System Architecture of Proposed System:





## The Model is Divided into Following Steps:

- I. Gathering Data.
- 2. Image Capturing through Pi Camera.
- 3. Images Training and Comparing.
- 4. Authorized access to the Door.
- 5. Interacting with Email Module.



- Raspberry-Pi
- Raspbian Operating System
- Pi Camera
- Image Processing Module
- OpenCV module
- Connecting Wires
- Rotational Motor





## Thank You!

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